BALANOKARPOL AND AMPELOPSIN H, TWO OLIGORESVERATROLS FROM STEM BARK OF *Hopea odorata* (DIPTEROCARPACEAE)

Sri Atun, Nurfina Aznam, Retno Arianingrum, Masatake Niwa

Two oligoresveratrol, namely balanokarpol (1) and ampelopsin H (2) had been isolated from the steam bark of *Hopea odorata* (Dipterocarpaceae). The structure of this compound were elucidated based on physical and spectroscopic data (MS, ^{1}H and ^{13}C NMR 1D and 2D). The activity of these compounds was evaluated against the 2-deoxyribose degradation induced by the hydroxyl radical generated via a Fenton-type reaction. The result of this study showed that activity each compounds as radical hydroxyl scavenger of balanocarpol, and ampelopsin H with an IC_{50} 1802,3 and 4840,0 μg/ml. respectively. Each compound showed low activity. Vitamin C (IC_{50} 83,9 μg/ml) and butylated hydroxyl toluene *(*1328,0 μg/ml) used as positif control. These results suggest that oligoresveratrols from stem bark of *H. odorata* may be useful as potential sources of natural antioxidants.

Keyword: balanocarpol; ampelopsin H; antioxidant; dipterocarpaceae

FMIPA, 2006 (PEND. KIMIA)